Claims

- 1. A non-stick coating comprising at least one-coat comprising:
 - a. a silane:
 - b. a binder component; and
 - c. a fluoropolymer component;

wherein the weight ratio of the binder component to the fluoropolymer component is about 1:4.

- 2. The non-stick coating of claim 1, wherein the binder component comprises PES and the fluoropolymer component comprises MFA.
- 3. The non-stick coating of claim 1, wherein the binder component comprises PAI and the fluoropolymer component comprises MFA.
- 4. The non-stick coating of claim 1, wherein the binder component comprises PES and the fluoropolymer component comprises PFA.
- 5. The non-stick coating of claim 1, wherein the binder component comprises PAI and the fluoropolymer component comprises PFA.
- 6. The non-stick coating of claim 1, wherein the one-coat is cured by infrared radiation.
- 7. The non-stick coating of claim 1, wherein the one-coat further includes a black pigment.
- 8. A conductive non-stick coating comprising at least one-coat, the one-coat comprising:
 - a. a silane;
 - b. a conductive pigment;
 - c. a binder component;
 - d. a fluoropolymer component; and

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wherein the weight ratio of the binder component to the fluoropolymer component is about 1:4.

- 9. The non-stick coating of claim 8, wherein the binder component comprises PES and the fluoropolymer component comprises MFA.
- The non-stick coating of claim 8, wherein the binder component comprises PAI and the fluoropolymer component comprises MFA.
- 11. The non-stick coating of claim 8, wherein the binder component comprises PES and the fluoropolymer component comprises PFA.
 - 12. The non-stick coating of claim 8, wherein the binder component comprises PAI and the fluoropolymer component comprises PFA.
 - 13. The non-stick coating of claim 8, wherein the one-coat is cured by infrared radiation.
 - 14. The non-stick coating of claim 8, wherein the one-coat further includes a black pigment.
 - 15. A non-stick coating comprising:
 - a. a primer coat;

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- b. an intermediate coat, the intermediate coat comprising a binder component and a fluoropolymer component, wherein the weight ratio of the binder component to the fluoropolymer component is about 7:3; and
 - c. a top coat, the top coat comprising a fluoropolymer.
- 16. The non-stick coating of claim 15, wherein the binder component is PES and the fluoropolymer component is a blend of FEP and PTFE.

- 17. The non-stick coating of claim 15, wherein the binder component is PES and the fluoropolymer component is MFA.
- 18. The non-stick coating of claim 15, wherein the primer coat comprises a silane.
 - 19. A conductive non-stick coating formulation comprising:
 - a. a primer coat;
 - b. an intermediate coat, the intermediate coat comprising a conductive pigment, a binder component and a fluoropolymer component, wherein the weight ratio of the binder component to the fluoropolymer component is about 7:3; and
 - c. a top coat, the top coat comprising a fluoropolymer.
- 15 20. The non-stick coating of claim 19, wherein the binder component is PES and the fluoropolymer component is a blend of FEP and
 - 21. The non-stick coating of claim 19, wherein the binder component is selected from the group consisting of PES, PPS and PAI.
 - 22. The non-stick coating of claim 19, wherein the fluoropolymer component is selected from the group consisting of MFA, PFA, FEP and PTFE.
 - 23. A method of forming a non-stick coating, the method comprising the following steps:
 - a. applying a primer coat, the primer coat comprising a silane;
 - b. applying an intermediate coat, the intermediate coat comprising a binder component and a fluoropolymer component, wherein the

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PTFE.

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weight ratio of the binder component to the fluoropolymer component is about 7:3:

- C. applying a top coat; and
- curing the applied coats with infrared radiation. d.

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24. The method of claim 23 wherein the intermediate coat further comprises a conductive pigment.

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- 25. The method of claim 23, wherein the coating is applied to a rubber substrate.
- 26. The method of claim 23, wherein the coating is applied to a silicone rubber substrate.

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27. The method of claim 26, wherein the silicone rubber substrate has a durometer of less than 20.

28. The method of claim 26, wherein the silicone rubber substrate has a durometer of less than 10.

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29. A method of forming a one-coat non-stick coating, the method comprising the following steps:

applying a coating comprising binder component and a a. fluoropolymer component, wherein the weight ratio of binder resin to fluoropolymer resin is about 1:4; and

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b. curing the coating with infrared radiation.

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comprises a conductive pigment.

The method of claim 29 wherein the intermediate coat further

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31. The method of claim 29, wherein the coating is applied to a rubber substrate.

- 32. The method of claim 29, wherein the coating is applied to a silicone rubber substrate.
- 5 33. The method of claim 32, wherein the silicone rubber substrate has a durometer of less than 20.
 - 34. The method of claim 32, wherein the silicone rubber substrate has a durometer of less than 10.